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L1: Entry 2 of 10

File: USPT

Feb 20, 2001

DOCUMENT-IDENTIFIER: US 6190897 B1

TITLE: Phytase

Brief Summary Text (7):

Microbial phytases may also reportedly be useful for producing animal feed from certain industrial processes, e.g., wheat and corn waste products. The wet milling process of corn produces glutens sold as animal feeds. Addition of phytase may reportedly improve the nutritional value of the feed product. Fungal phytase enzymes and process conditions (t.about.50.degree. C. and pH .about.5.5) have been reported previously in European Patent Application 0 321 004. In processing soybean meal the presence of phytate reportedly renders the meal and wastes unsuitable for feeds used in rearing fish, poultry and other non-ruminants as well as calves fed on milk. Phytase is reportedly useful for improving the nutrient and commercial value of this high protein soy material (see Finase Enzymes by Alko, Rajamaki, Finland). A combination of phytase and a pH 2.5 optimum acid-phosphatase from A. niger has been used by Alko, Ltd as an animal feed supplement in their phytic acid degradative product Finas F and Finase S. A cost-effective source of phytase would greatly enhance the value of soybean meals as an animal feed (Shieh et al., 1969).